

Title (en)
Laser measurement apparatus

Title (de)
Lasermessvorrichtung

Title (fr)
Dispositif de mesure laser

Publication
EP 1480006 A2 20041124 (EN)

Application
EP 04011074 A 20040510

Priority
JP 2003140673 A 20030519

Abstract (en)
In a laser measurement apparatus capable of measuring a moving object or a designated object to be measured by tracking an object to be tracked and detecting the position of the tracked object as needed, optical signal processing units (103 through 105) output laser beams having different wavelengths via a common optical path A toward a corner cube (100) attached to an object to be measured, and detect the laser beams being reflected on the corner cube (100). A control unit (102) controls motors (110, 111) so that the laser beams return to a predetermined position of an optical position sensitive detector (117) of an optical signal processing unit (103), by which the direction of a reflecting mirror (112) is controlled so that the laser beams track the object. The control unit (102) computes the distance, shape, position, speed etc. of the object to be measured based on signals detected via the optical signal processing units (104, 105) while having the laser beams output from optical signal processing units (104, 105) track the object to be tracked.

IPC 1-7
G01B 11/00; **G01B 11/02**; **G01B 11/24**

IPC 8 full level
G01B 11/00 (2006.01); **G01S 17/36** (2006.01); **G01B 11/02** (2006.01); **G01B 11/03** (2006.01); **G01B 11/24** (2006.01); **G01C 3/08** (2006.01); **G01C 15/00** (2006.01); **G01S 7/481** (2006.01); **G01S 17/66** (2006.01)

CPC (source: EP US)
G01C 3/08 (2013.01 - EP US); **G01C 15/002** (2013.01 - EP US); **G01S 7/4813** (2013.01 - EP US); **G01S 17/66** (2013.01 - EP US); **G01S 7/4815** (2013.01 - EP US)

Cited by
WO2007079601A1; GB2570910A; IL264733B1; EP2869067A1; AU2007204543B2; EP2743728A3; CN104380138A; CN103576160A; EP2696216A3; US9417059B2; US8379191B2; US9404904B2; US11764539B2; US8125629B2; US8279430B2; WO2019037809A1; EP1759172B1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1480006 A2 20041124; **EP 1480006 A3 20060308**; JP 2004340880 A 20041202; US 2004232317 A1 20041125; US 7022971 B2 20060404

DOCDB simple family (application)
EP 04011074 A 20040510; JP 2003140673 A 20030519; US 82331904 A 20040413